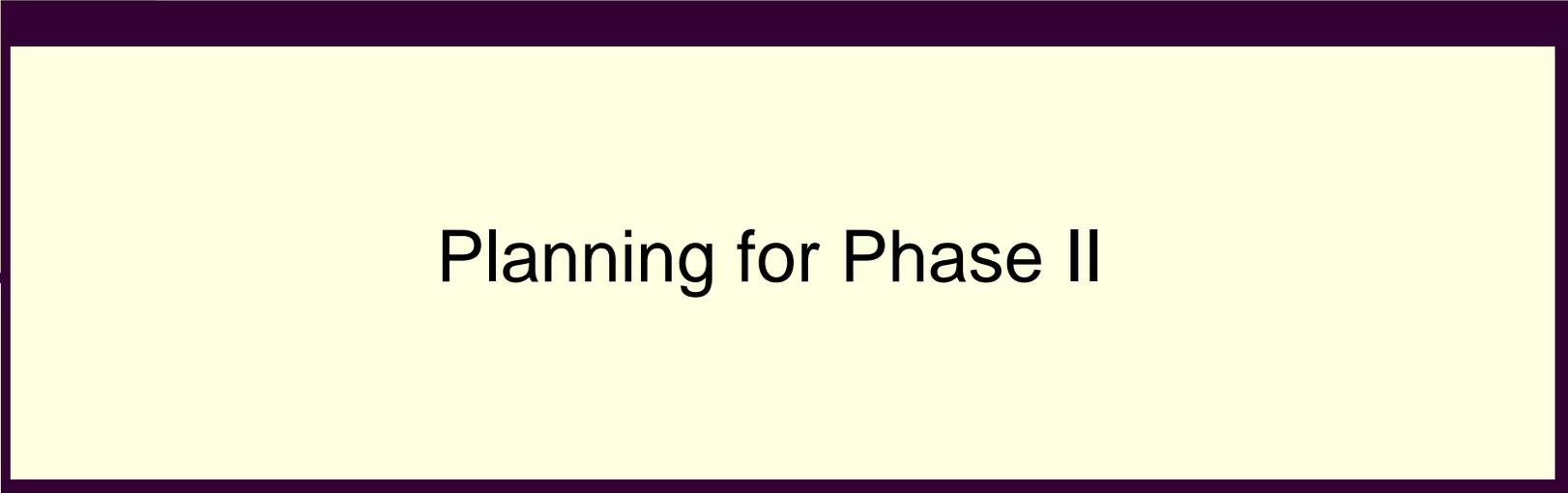




J2EE Conversion



Planning for Phase II

Phase I Background

- Kumaran converts GM and UA
- Two on-site Kumaran staff
- Preliminary code deliveries have been successful. Code has been reviewed by developers and architecture and found to be maintainable, scalable and consistent with eRA framework
- Complete code delivery for Integration testing July 8, 2004
- Deployment to production pilot expected August 16, 2004.

Phase I Background

- March 18 – August 16, 2004
- 68 files converted
- Cost
 - \$221K Conversion
 - \$ 76K Testing/Implementation
 - \$ 95K Architecture support
 - **\$392K Total**

Considerations for Phase II Planning

- Allow more time for analysis and design phases
- Include testers and documentation staff during design phase
- Post-deployment transition support is needed
- Plan for resources required to support the conversion
- Control (*minimize...eliminate*) changes to modules being converted. Communicate this restriction to all (project team, analysts, CCB, etc.)
- Ask Kumaran to provide test plans and test cases

Phase II

- Convert remaining client server applications (*12 applications, approximately 180 files*)
- 42-week schedule including 8 weeks of Transition support. Three on-site Kumaran staff.
- Start mid-September 2004 and complete mid-July 2005
- Logically group applications to be converted and delivered together (6 Code deliveries over a 17-week period)
- Approximate Projected Cost \$1.4M
- Fixed Price Contract

Phase II – Conversion Order

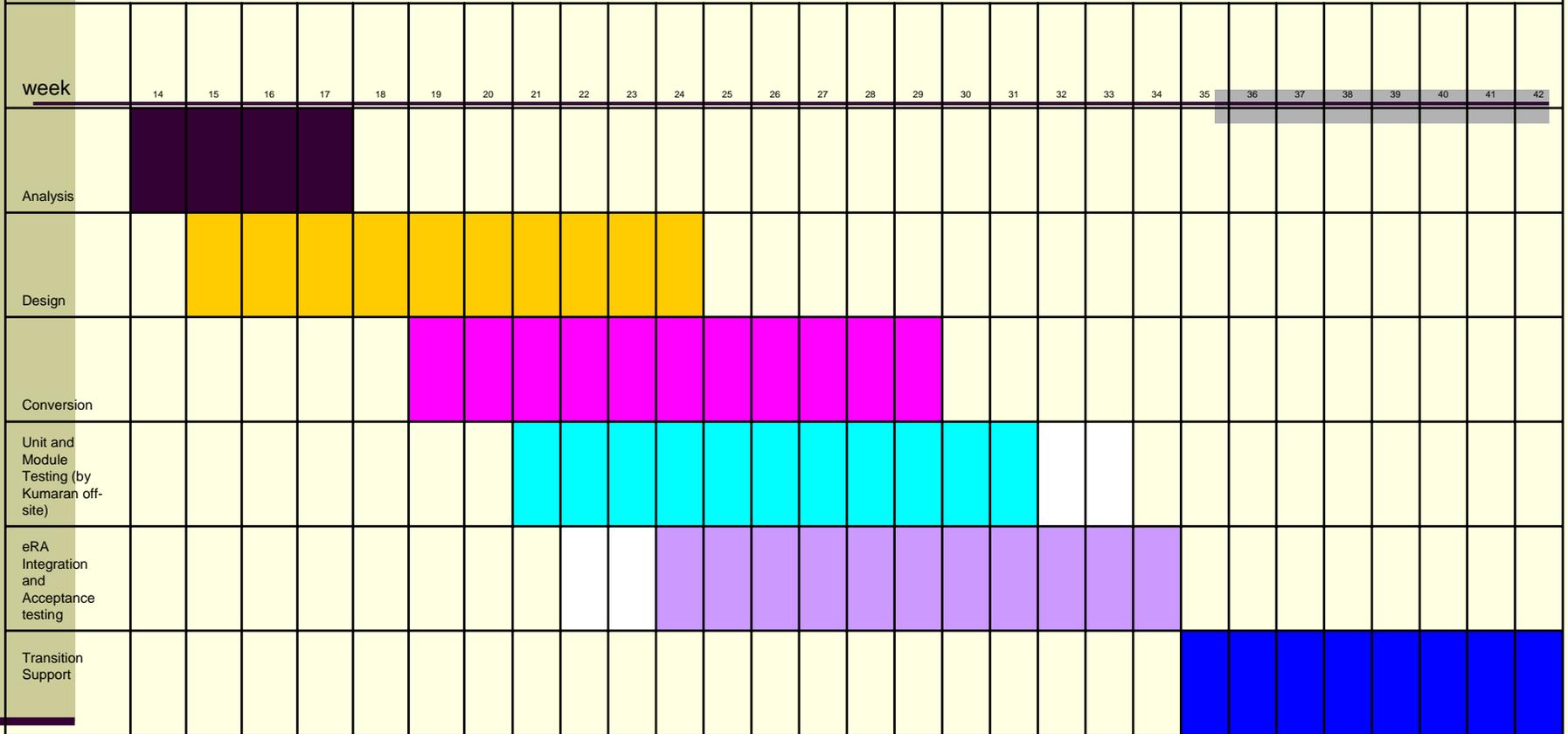
1. GUM, Subprojects, ICO
2. TA
3. CM*, Review
4. RR
5. Crisp Plus, Pop Tracking
6. IQR, SITS, ICSTORE

**some CM functionality is already available in CM Web.
Instead of doing a redesign and pulling CM Web features
out of CM before conversion it will be converted as is.*

Sub Phase I																					
week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Analysis	Dark Purple	Dark Purple	Dark Purple	Dark Purple	White	White															
Design		Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	White	White								
Environment Setup						Cyan	Cyan														
Conversion								Magenta	Magenta	Magenta	Magenta	Magenta	Magenta	Magenta	Magenta	Magenta	Magenta	Magenta	Magenta		
Unit and Module Testing (by Kumaran off-site)										Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	White	White	
eRA Integration and Acceptance testing												Light Purple									

Code Delivery to NIH	Week Delivered In
GUM, Subprojects, ICO	12 th week
TA	15 th week
CM and Rev	18 th week

Sub Phase II



Code Delivery to NIH	Week Delivered In
RR	23 rd week
CP/SIR and POP	26 th week
IQR, SITS, and ICStore	29 th week

Challenges

- Must have **adequate resources** on our side (Business & Requirements Analysts, Testing, Ops, CM/Integration, Architecture, Documentation, Maintenance Developer)
- Timeline is aggressive and cannot happen without buy-in and commitment to the schedule from all participants
- Fixed price contract requires us to be on schedule especially when providing feedback from design reviews, code reviews and testing.

Critical Resource Commitments

- Architecture
 - Coordinate the conversion task
 - Produce and maintain Migration Technical Architecture document (identifies technical issues and solutions, capacity planning, defines target architecture for test, staging and production)
 - Provide first level technical support to Kumaran
 - Code review
 - Design review
 - Deploy code to Development environment

Critical Resource Commitments

■ Business Analysts

- Must participate in Analysis and Design Phases (up to 35% of time during 10 week period x 2 phases)
 - Demonstrating application to Kumaran, answering related questions
 - Reviewing design/UI and providing feedback (iterative)
 - *Recommend* Showing UI to users/advocate for feedback before design is finalized
- Must be available to answer some questions during Conversion phase
- Must participate in Integration Testing Phase
 - As a resource to testers for test plan and test case development
 - After code is delivered, business analyst will conduct functionality verification of the application, executing the major scenarios (50% of time during 2-week period).
 - Report defects.
 - Once reviewed and validated by Business analyst, he/she will give approval for application to go into typical Integration testing
 - Must participate during normal testing cycle and be available to answer questions (15% of time during Integration and Acceptance testing 10-week period)
- If appropriate will coordinate to include key users for participation during Acceptance testing phase.
- Must devise rollout plan (pilot implementation) for deployment of application to users and shutdown of client server equivalent, briefing appropriate user group and advocate.
- Reviewing documentation (release notes, user guide and help files)

Critical Resource Commitments

- Requirements Analysts
 - Must participate in Analysis and Design Phase (up to 35% of time during 10 week period x 2 phases)
 - Assist in showing application to Kumaran, answering related questions
 - Reviewing design/UI and providing feedback (iterative)
 - Must be available to answer questions during Conversion phase
 - Must participate in Integration Testing Phase
 - As a resource to testers for test plan and test case development
 - After code is delivered, requirements analyst will work with Business Analyst to verify correct functionality of major scenarios (50% of time during 2-week period).
 - Report defects
 - Must participate during normal testing cycle and be available to answer questions (15% of time during Integration and Acceptance testing 10-week period)
 - Reviewing documentation (release notes, user guide and help files)

Critical Resource Commitments

■ CM/Integration

- Provide build support
- Provide training on the tools (CVS, CQ, Clearcase)
- Provide release and integration support

■ Operations

- Provide infrastructure support
- Provide DBA support
- Perform deployments to test, staging
- Build environment (if necessary, procure hardware)

Critical Resource Commitments

- Testers – *Current testing resources may not be sufficient*
 - To more evenly distribute the workload, code deliveries and deployments to test will be staggered with three weeks between each of the first 3 deliveries, a 5-week break and then 3 weeks between each of the last three deliveries.
 - Testing will start 12 weeks into Phase II (approximately mid-December 2004) and go through June 2005.
 - Kumaran will be providing test plans and test cases.
 - Instead of test plan and test case development.....could an alternative be using user manuals, training materials, release notes, supporting user documentation to exercise all functionality?
 - Could current testing team be supplemented by adding testers for this task?

Critical Resource Commitments

- Maintenance Developer
 - Code Reviews
 - Answer questions during Conversion
 - Transition, Knowledge Transfer
 - Post-deployment support
 - Integration of Common modules

- Documentation
 - Release Notes
 - Update User Guide
 - Update Help Files

- Blueprint Reverse Engineering
 - concentrating on documentation of business rules

Analysts/Key Staff/Expert Commitments

- GUM – MMartin, MSiegert
- Subprojects – IFaenson, MGoodman
- ICO – Mmartin, MSiegert
- TA – Lkatzper, MCox
- CM – Ssimms, MMartin, Sgibb
- Review – Dfox, Msiegert, Tsoto, SGibb
- RR – Ddixon, LDiggs
- Crisp Plus – Tmilner, Pgaines
- Pop Tracking – Mkoshy, Dhall
- IQR – Pgaines, Tmilner
- SITS – Ssilver, MMartin
- ICSTORE – Pgaines, Tmilner

Next Steps.....

- Is this proposal feasible?
- How does it fit into our FY05 plan?
- Can the necessary resources be committed?
- Timeline? Start date of September 15, 2004?
- Funding options? FY04, FY 05